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SECURITY INFORMATION

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Germany (Russian Zone)

FED Abstract of [REDACTED]

Radio Direction Finder for Use on Ships -- 4 pp -- German -- [REDACTED]

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This radio direction finder, consisting of Loop Antenna RA 31-1 (or RA 31-2) and Receiver RE 31-1, serves for locating transmitters within a frequency band of 250 - 545 kc. It is employed on ships at sea for direction finding.

The receiving portion of the installation is a superheterodyne with two tunable input circuits, two band-pass filters, and two oscillators. The intermediate frequency is 125 kc. In  $A_1$  operation its bandwidth is 100 - 200 cps, and in  $A_2$  and  $A_3$  operation, it is 1 - 2 kc.

The installation operates on 120 V-cycle, 220 volt line; in emergencies it can be operated on a battery in conjunction with a transformer. The total weight of the unit is 90 kg.

The report is accompanied by a complete circuit diagram, and two diagrams showing the dimensions of the loop antenna and the RF receiver. The photograph listed as Sheet No 5 in the list of documents was not appended.

The device was developed by the RFT Funkwerk Kopenhagen KES [REDACTED] according to [REDACTED]; however, the firm of RFT Wfb Radio- u. Fernmeldetechnik, Leipzig C 1, appears on the documents.

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RETAIN OR DESTROY

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Abstracted by [REDACTED]

April 2,